LSI

LSI00160/ LSI00161 Battery Backup

Remote Battery Mounting Application Note

Standard BBU Mounting Provisions

The BBU06 and BBU07 Battery Backup Options consist of a BBU Control Module which is a small daughter PC board assembly and a Battery Pack assembly. The BBU control module included in these accessory kits can be mounted directly on LSI 3Gb/s and 6Gb/s RAID Controllers, respectively, in four and eight port configurations. You can mount these accessories off the controller (remote) as well to reduce airflow constraints in dense systems. For 16i and 24i controllers it is required to use the remote mount option (LSI00260) described below.

All LSI 6Gb SATA + SAS products use the same BBU Control Module and Battery Pack model BBU07. The BBU Control Module can be mounted on the 6Gb/s RAID Controller (4 and 8 port models only), but it is possible to remotely mount the Battery Pack as well.

The BBU Control Module is electrically connected via a 20 pin connector and held in place with standoffs and screws. The Battery Pack is snapped in place and retained by two latches that engage slots on the BBU control module and is electrically connected to the daughter board by a pigtail with a 5 pin connector.

Alternate Locations for Battery Pack

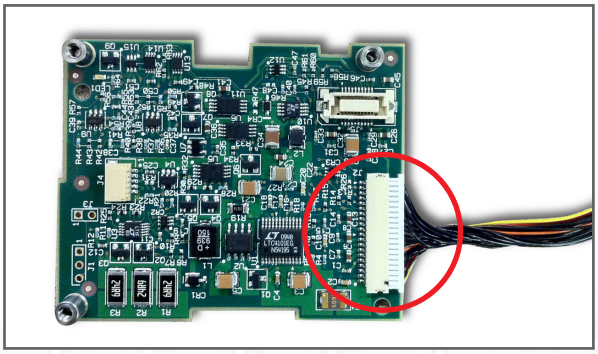
The battery pack can be attached onto a Battery Mounting PCB (BBU-BRACKET-04) that is secured to the back of the enclosure by a standard PC mounting bracket. The card is mounted on a Full Height mounting bracket and an optional Low Profile bracket is also included as part of the kit. Both brackets are "vented" to allow maximum cooling air flow in the vicinity of the battery. The remote mounted BBU connects to the RAID controller using an extension cable kit (LSI00260) that supports locations up to 12" from the controller.

The BBU-BRACKET-04 also includes a cable but it is not used with these BBU versions and should be discarded.

Installation for Remote Mount kit

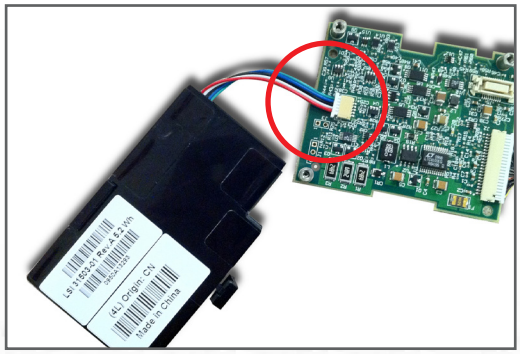
- **Step 1**

Attach 20 pin extension cable included in the LSI00260 kit to BBU control module.



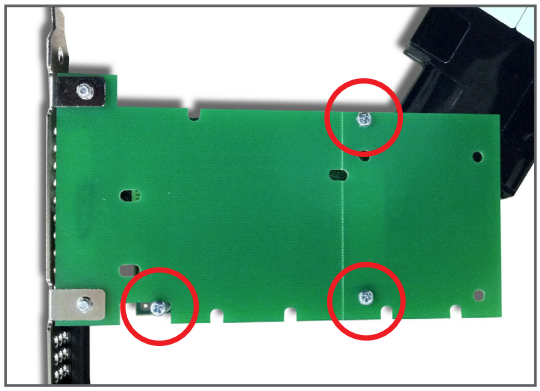
- **Step 2**

Attach 5 pin cable from Battery to BBU control module



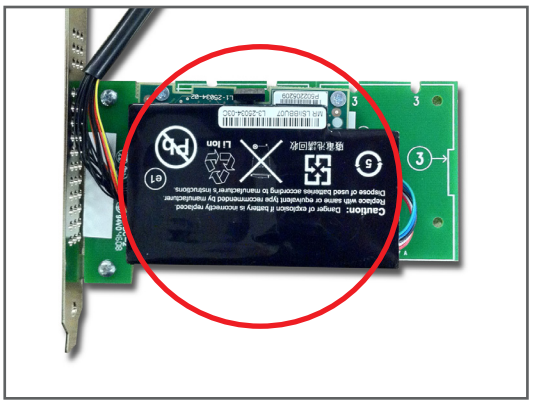
- **Step 3**

Using the 3 screws provided with BBU07 or BBU06 kit mount the BBU control module to the BBU-BRACKET-04 using the holes shown below. Insert the screws loosely into the standoffs for all 3 locations; once the screws are in place you can then tighten all screws snugly to firmly mount the BBU module to the Bracket.



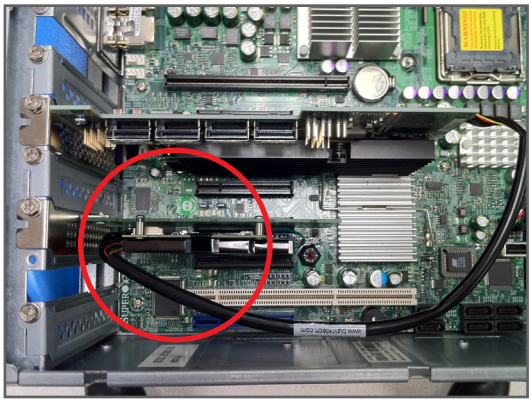
- **Step 4**

Mount the Battery to the BBU control module using the clips.



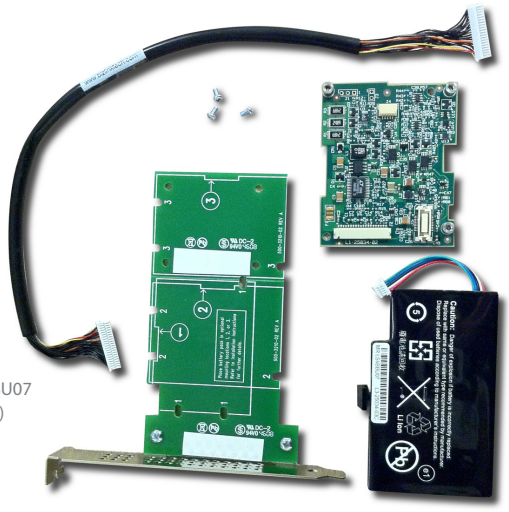
- **Step 5**

Mount the complete BBU assembly into an available PCI slot on the server and attach the other end of the 20 pin cable to the RAID controller.



Appendix - Ordering Part Numbers

Description	LSI Part Numbers	Model Name
Battery Backup Unit	LSI00160 or LSI0061	BBU06 / BBU007
Remote Battery Mounting Kit	LSI00260	Remote Battery Mounting Kit
Bracket kit for BBU	BBU-BRACKET-04	Remote Mount Bracket



Parts shown needed for Remote Mount kit (BBU07 or BBU06 with LSI00260 and BBU-BRACKET-04)

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